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Sub	Substitute for form 1449/PTO			Complete if Known		
				Application Number	10/580,746-Conf. #9342	
11	VFORMATION	N DI	SCLOSURE	Filing Date	May 26, 2006	
S	STATEMENT BY APPLICANT			First Named Inventor	Ingmar Hoerr	
				Art Unit	1636	
	(Use as many sheets as necessary)			Examiner Name	M. Marvich	
Sheet	1	of	11	Attorney Docket Number	22122-00006-US1	

			U.S. PA	TENT DOCUMENTS	
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA*	US-3,906,092	09-16-1975	Hilleman et al.	
	AB*	US-4,373,071	02-08-1983	Itakura	
	AC*	US-4,401,796	08-30-1983	Itakura	
	AD*	US-4,415,732	11-15-1983	Caruthers et al.	
	AE*	US-4,458,066	07-03-1984	Caruthers et al.	
	AF*	US-4,500,707	02-19-1985	Caruthers et al.	
	AG*	US-4,668,777	05-26-1987	Caruthers et al.	
	AH*	US-4,973,679	11-27-1990	Caruthers et al.	
	Al*	US-5,047,524	09-10-1991	Andrus et al.	
	AJ*	US-5,132,418	07-21-1992	Caruthers et al.	
	AK*	US-5,153,319	10-06-1992	Caruthers et al.	
	AL*	US-5,262,530	11-16-1993	Andrus et al.	
	AM*	US-5,580,859	12-03-1996	Felgner et al.	
	AN*	US-5,663,153	09-02-1997	Hutcherson et al.	
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	AP*	US-5,965,720	10-12-1999	Gryaznov et al.	
	AQ*	US-6,214,804-B1	04-10-2001	Felgner et al.	
	AR*	US-6,239,116-B1	05-29-2001	Krieg et al.	
	AS*	US-6,265,387-B1	07-24-2001	Wolff et al.	

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Evenines	Cite	Foreign Patent Document	Publication	Name of Patentee or	Pages, Columns, Lines,			
Examiner Initials*	No.1	Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Date MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages Or Relevant Figures Appear			
	ВА	WO-93/14778-A1	08-05-1993	Vical Inc				
	ВВ	WO-97/41210-A1	11-06-1997	Univ Duke et al.				
	ВС	WO-98/55495-A2	12-10-1998	Dynavax Tech Corp et al.		П		
	BD	WO-99/20774-A2	04-29-1999	Genzyme Transgenics Corp				
	BE	EP-1 083 232-A1	03-14-2001	Jung Guenther Prof Dr et al.				
	BF	WO-00/29561-A2	05-25-2000	Statens Seruminstitut et al.				

Examiner	Date	·
Signature	Considered	

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Sheet	2	of	11	Attorney Docket Number	22122-00006-US1	

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	AT*	US-6,322,967-B1	11-27-2001	Parkin	
	AU*	US-6,406,705-B1	06-18-2002	Davis et al.	
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	AX*	US-6,514,948-B1	02-04-2003	Raz et al.	
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	AZ*	US-6,589,940-B1	07-08-2003	Raz et al.	
	AA1*	US-20030143204-A1	07-31-2003	Lewis et al.	
	AB1*	US-6,610,661-B1	08-26-2003	Carson et al.	
	AC1*	US-20030170273-A1	09-11-2003	O'Hagan et al.	
	AD1*	US-20030225016-A1	12-04-2003	Fearon et al.	
	AE1*	US-6,664,066-B2	12-16-2003	Parks	
	AF1*	US-20040005667-A1	01-08-2004	Ratti et al.	
	AG1*	US-20040106567-A1	06-03-2004	Hagstrom et al.	
	AH1*	US-20050250723-A1	11-10-2005	Hoerr et al.	
	Al1*	US-20050032730-A1	02-10-2005	Von Der Mulbe et al.	
	AJ1*	US-20050037494-A1	02-17-2005	Hecker et al.	
	AK1*	US-20050059624-A1	03-17-2005	Hoerr et al.	See BH
	AL1*	US-20050064596-A1	03-24-2005	Riemen et al.	

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	BG	WO-03/028656-A2	04-10-2003	Chiron Corp et al.						
	вн	WO-03/051401-A2	06-26-2003	Curevac Gmbh et al.	See AK1					
	BI	WO-03/059381-A2	07-24-2003	Curevac Gmbh et al.						
	BJ	WO-03/066649-A1	08-14-2003	Biomira Inc et al.		\Box				
	вк	EP-1 393 745-A1	03-03-2004	Hybridon Inc						
	BL	WO-2004/058159-A2	07-15-2004	Dynavax Tech Corp et al.						

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S	TATEMENT	BY A	APPLICANT	First Named Inventor	Ingmar Hoerr	
				Art Unit	1636	
	(Use as many sheets as necessary)			Examiner Name	M. Marvich	
Sheet	3	of	11	Attorney Docket Number	22122-00006-US1	

			U.S. PA	TENT DOCUMENTS	
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	AM1*	US-7,001,890-B1	02-21-2006	Wagner et al.	
	AN1*	US-20060172966-A1	08-03-2006	Lipford et al.	
	AO1*	US-2006/0188490- A1	08-24-2006	Hoerr et al.	
	AP1*	US-20060241076-A1	10-26-2006	Uhlmann et al.	
	AQ1*	US-7,208,478-B2	04-24-2007	Carson et al.	
	AR1*	US-7,276,489-B1	10-02-2007	Agrawal et al.	

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	вм	WO-2007/024708-A2	03-01-2007	Univ Pennsylvania et al.						

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S	TATEMENT B	3Y A	APPLICANT	First Named Inventor	Ingmar Hoerr	
				Art Unit	1636	
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Sheet	Sheet 4 of 11 Attorney Docket Number		22122-00006-US1			

		NON PATENT LITERATURE DOCUMENTS	
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	CA	O'DOHERTY, U., et al., Human blood contains two subsets of dendritic cells, one immunologically mature and the other immature. <i>Immunology</i> 82 (1994), 487-493.	
	СВ	TEUFEL, R., et al., Human peripheral blood mononuclear cells transfected with messenger RNA stimulate antigen-specific cytotoxic T-lymphocytes in vitro. <i>Cell. Mol. Life Sci.</i> 62 (2005), 1755-1762.	
	СС	ROMANI, N., et al., Generation of mature dendritic cells from human blood - An improved method with special regard to clinical applicability. <i>Journal of Immunological Methods</i> 196 (1996, 137-151.	
	CD	MORSE, M., et al., Generation of dendritic cells <i>in vitro</i> from peripheral blood mononuclear cells with granulocyte0macrophage-colony-stimulating factor, interleukin-4, and tumor necrosis factor-α for use in cancer immunotherapy. <i>Annals of Surgery</i> 226(1) (1997), 6-16.	
	CE	FEARNLEY, D.B., et al., Monitoring Human Blood Dendritic Cell Numbers in Normal Individuals and in Stem Cell Transplantation. <i>Blood</i> 93(2) (1999, 728-736.	
	CF	SIENA, S., et al., Expansion of Immunostimulatory Dendritic Cells from Peripheral Blood of Patients with Cancer. <i>The Oncologist</i> 2 (1997), 65-69.	
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	СН	WEISSMAN, D., et al., Dendritic Cells Express and Use Multiple HIV Coreceptors. <i>Dendritic Cells in Fundamental and Clinical Immunology</i> , Ricciardi-Castagnoli (Ed.), Plenum Press, New York (1997), 401-406.	
	CI	HEISER, A., et al., Autologous dendritic cells transfected with prostate-specific antigen RNA stimulate CTL responses against metastatic prostate tumors. <i>The Journal of Clinical Investigation</i> 109(3) (2002), 409-417.	
	CJ	HEISER, A., et al., Human Dendritic Cells Transfected with RNA Encoding Prostate-Specific Antigen Stimulate Prostate-Specific CTL Responses in Vitro. <i>The Journal of Immunology</i> (2000), 5508-5514.	

Examiner	Date
Signature	Considered

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l IN	NFORMATIO	N DIS	CLOSURE	Filing Date	May 26, 2006	
S	TATEMENT	BY AF	PPLICANT	First Named Inventor	Ingmar Hoerr	
				Art Unit	1636	
	(Use as many s	heets as ne	ecessary)	Examiner Name	M. Marvich	
Sheet	5	of	11	Attorney Docket Number 22122-00006-US1		

		NON PATENT LITERATURE DOCUMENTS	
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	ск	HOLMES, D., et al., Cell Positioning and Sorting using Dielectrophoresis. European Cells and Materials 4(Suppl. 2) (2002), 120-122.	
	CL	ZHANG, X. et al., Advances in Dendritic Cell-Based Vaccine of Cancer. Cancer Biotherapy and Radiopharmaceuticals 17(6) (2002), 601-619.	
	СМ	SU, Z. et al., Enhanced Induction of Telomerase-specific CD4+ T Cells Using Dendritic Cells Transfected with RNA Encoding a Chimeric Gene Product. <i>Cancer Research</i> 62 (2002), 5041-5048.	
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	со	HEISER, A., et al., Induction of Polyclonal Prostate Cancer-Specific CTL Using Dendritic Cells Transfected with Amplified Tumor RNA. <i>The Journal of Immunology</i> 166 (2001), 2953-2960.	
	СР	CONRY, R.M. et al., Characterization of a messenger RNA Polynucleotide Vaccine Vector. <i>Cancer Research</i> 55 (1995), 1397-1400.	
	CQ	HOERR, I., <i>In vivo</i> application of RNA leads to induction of specific cytotoxic T lymphocytes and antibodies. <i>Eur. J. Immunol.</i> 30 (2000), 1-7.	
	CR	BOCZKOWSKI, D., et al., Induction of Tumor Immunity and Cytotoxic T Lymphocyte Responses Using Dendritic Cells Transfected with Messenger RNA Amplified from Tumor Cells. Cancer Research 60 (2000), 1028-1034.	
	cs	DURET, L. et al., Expression pattern and, surprisingly, gene length shape codon usage in <i>Caenorhabditis, Drosophila</i> , and <i>Arabidopsis. Proc. Nat. Acad. Sci. USA</i> 96 (1999), 4482-4487.	
	СТ	WU, L. et al., Fusion protein vectors to increase protein production and evaluate the immunogenicity of genetic vaccines. <i>Mol. Ther.</i> 2(3) (2000), 288-297. (ABSTRACT ONLY)	

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S	TATEMENT E	3Y <i>A</i>	APPLICANT	First Named Inventor	Ingmar Hoerr	
				Art Unit	1636	
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Sheet	6	of	11	Attorney Docket Number 22122-00006-US1		

		NON PATENT LITERATURE DOCUMENTS	
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	си	HAAS, J. et al., Codon usage limitation in the expression of HIV-1 envelope glycoprotein. Current Biology 6(3) (1996), 315-324.	
	CV	KOIDE, Y. et al., Review - Current Perspective - DNA Vaccines. <i>Jpn. J. Pharmacol.</i> 83 (2000), 167-174.	
	cw	NAGATA, T. et al., Codon Optimization Effect on Translational Efficiency of DNA Vaccine in Mammalian Cells: Analysis of Plasmid DNA encoding a CTL Epitope Derived from Microorganisms. <i>Biochemical and Biophysical Research Communications</i> 261 (1999), 445-451.	
	СХ	KIM, C. et al., Codon optimization for high-level expression of human erythropoietin (EPO) in mammalian cells. <i>Gene</i> 199 (1997), 293-301.	
	CY	KOMAR, A.A. et al., Synonymous codon substitutions affect ribosome traffic and protein folding during in vitro translation. <i>FEBS Letters</i> 462 (1999), 387-391.	
	CZ	ROBINSON, F. et al., Expression of Human nPTB is Limited by Extreme Suboptimal Codon Content. <i>PLoS ONE</i> 3 (3) (2008): e1801, doi: 10.1371/journal.pone.0001801.	
	CA1	PESOLE, G. et al., UTRdb and UTRsite: specialized databases of sequences and functional elements of 5' and 3' untranslated regions of eukaryotic mRNAs. Update 2002. <i>Nucleic Acids Research</i> 30(1) (2002), 335-340.	
	СВ1	DUNHAM, S.P., The application of nucleic acid vaccines in veterinary medicine. Research in Veterinary Science 73 (2002), 9-16.	
	CC1	LEITNER, W.W. et al., DNA and RNA-based vaccines: principles, progress and prospects. <i>Vaccine</i> 18 (2000), 765-777.	
	CD1	LUO, D. et al., Synthetic DNA delivery system. Nature Biotechnology 18 (2000), 33-37.	

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	CE1	VERMA, I.M. et al., Gene therapy - promises, problems and prospects. Nature 389, 239-242.	
	CF1	EDELSTEIN, M.L. et al., Gene therapy clinical trials worldwide 1989-2004 - an overview. <i>J. Gene Med.</i> 6 (2004), 597-602.	
	CG1	PALU, G. et al., In pursuit of new developments for gene therapy of human diseases. <i>Journal of Biotechnology</i> 68 (1999), 1-13.	
	CH1	KUDIA, G. et al., High Guanine and Cytosine Content Increases mRNA Levels in Mammalian Cells. <i>PLoS Biol</i> 4(6) (2006): e180. DOI: 10.1371/journal.pbio.0040180.	
	CI1	WILUSZ, C.J. et al., Bringing the role of mRNA decay in the control of gene expression into focus. <i>TRENDS in Genetics</i> 20(10) (2004), 491-497.	
	CJ1	TOURRIERE, H. et al., mRNA degradation machines in eukaryotic cells. <i>Biochimie</i> 84 (2002), 821-837.	
	CK1	MITCHELL, P. et al., mRNA turnover. Current Opinion in Cell Biology 13 (2001), 320-325.	
	CL1	ROITT, BROSTOFF AND MALE. Immunology, 4th Edition. Barcelona: Times Mirror International Publishers Limited, 1996, page 1.7.	
	CM1	ROSS, J., Control of messenger RNA stability in higher eukaryotes. <i>Trends Genet.</i> 12(5) :171-5, May 1996.	
	CN1	UEDA, T. et al., Phosphorothioate-containing RNAs show mRNA activity in the prokaryotic translation systems in vitro. Nucleic Acids Research 19(3) (1991), 547-552.	

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	CO1	TRINCHIERI, G. et al., Cooperation of Toll-like receptor signals in innate immune defence. <i>Nature Reviews/Immunology</i> 7 (2007), 179-190.	
	CP1	RAMAZEILLES, C. et al., Antisense phosphorothioate oligonucleotides: Selective killing of the intracellular parasite <i>Leishmania amazonensis</i> . <i>Proc. Natl. Acad. Sci. USA</i> 91 (1994), 7859-7863.	
	CQ1	DIEBOLD, S.S. et al., Innate Antiviral Responses by Means of TLR7-Mediated Recognition of Single-Stranded RNA. <i>Science</i> 303 (2004), 1529-1531.	
	CR1	HEMMI, H. et al., A Toll-like receptor recognizes bacterial DNA. Nature 408 (2000), 740-745.	
CS	CS1	ZHOU, WZ. et al., RNA Melanoma Vaccine: Induction of Antitumor Immunity by Human Glycoprotein 100 mRNA Immunization. <i>Human Gene Therapy</i> 10 (1999), 2719-2724.	
	CT1	MATRAY, T.J. et al., Synthesis and properties of RNA analogs - oligoribonucleotide N3'→P5' phosphoramidates. <i>Nucleic Acids Research</i> 27(20) (1999), 3976-3985.	
	CU1	NICHOLSON, A. et al., Accurate <i>in vitro</i> cleavage by RNase III of phosphorothioate- substituted RNA processing signals in bacteriophage T7 early mRNA. <i>Nucleic Acids</i> <i>Research</i> 16(4) (1988), 1577-1591.	
	CV1	MINKS, M.A. et al., Structural Requirements of Double-stranded RNA for the Activation of 2',5'-Oligo(a) Polymerase and Protein Kinase of Interferon-treated HeLa Cells. <i>The Journal of Biological Chemistry</i> 254(20) (1979), 10180-10183.	
	CW1	JANSSENS, S. et al., Role of Toll-Like Receptors in Pathogen Recognition. <i>Clinical Microbiology Reviews</i> 16(4) (2003), 637-646.	
	CX1	GRANSTEIN, R.D. et al., Induction of Anti-Tumor Immunity with Epidermal Cells Pulsed with Tumor-Derived RNA or Intradermal Administration of RNA. <i>J. Invest. Dermatol.</i> 114 (2000), 632-636.	

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Subst	itute for form 1449/PTO			Complete if Known		
				Application Number	10/580,746-Conf. #9342	
IN	FORMATION	I DI	SCLOSURE	Filing Date	May 26, 2006	
ST	ATEMENT E	3Y <i>A</i>	APPLICANT	First Named Inventor	Ingmar Hoerr	
				Art Unit	1636 /	
	(Use as many sh	eets as	s necessary)	Examiner Name	M. Marvich	
Sheet	Sheet 9 of 11		Attorney Docket Number	22122-00006-US1		

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials	Cite No.1 Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), titl the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-is number(s), publisher, city and/or country where published.		T ²
	CY1	SAENZ-BADILLOS, J. et al., RNA as a tumor vaccine: a review of the literature. <i>Exp. Dermatol.</i> 10 (2001), 143-154.	
	CZ1	LOGING, W.T. et al., Identifying Potential Tumor Markers and Antigens by Database Mining and Rapid Expression Screening. <i>Genome Research</i> 10 (2000), 1393-1402.	
	CA2	WEIDE, B. et al., Results of the first phase I/II clinical vaccination trail with direct injection of mRNA. <i>J. Immunother.</i> 31(2) (2008), 180-188. (Abstract only)	
	CB2	SU, Z. et al., Immunological and Clinical Responses in Metastatic Renal Cancer Patients Vaccinated with Tumor RNA-transfected Dendritic Cells. <i>Cancer Research</i> 63 (2003), 2127-2133.	
	CC2	WEIDE, B. et al., Results of the First Phase 1/2 of Clinical Vaccination Trial with Direct Injection of mRNA. <i>J. Immunother.</i> 00(00) , 1-9.	
	CD2	CARRALOT, J-P. et al., Production and characterization of amplified tumor-derived cRNA libraries to be used as vaccines against metastatic melanomas. <i>Genetic Vaccines and Therapy</i> 3 (2005), 6.	
	CE2	LENZ, A. et al., Human and Murine Dermis Contain Dendritic Cells. <i>J. Clin. Invest.</i> 92 (1993), 2587-2596.	
	CF2	ROSENBERG, S.A. et al., Cancer immunotherapy: moving beyond current vaccines. <i>Nat Mec.</i> 10(9) (2004), 909-915.	
	CG2	HOATH, S.B. et al., The Organization of Human Epidermis: Functional Epidermal Units and Phi Proportionality. <i>J. Invest. Dermatol.</i> 121 (2003), 1440-1446.	
	CH2	MEUNIER, L. et al., Heterogeneous Populations of Class II MHC+ Cells in Human Dermal Cell Suspensions. <i>The Journal of Immunology</i> 151(8) (1993), 4067-4080.	

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Sheet	10	of	11	Attorney Docket Number	22122-00006-US1	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials	Cite No. ¹		
	CI2	MATHERS, A.R. et al., Professional Antigen-Presenting Cells of the Skin. <i>Immunologic Research</i> 36/1-3 (2006), 127-136.	
	CJ2	PALUCKA, A.K. et al., Taming cancer by inducing immunity via dendritic cells. <i>Immunological Reviews</i> 220 (2007), 129-150.	
	CK2	LARREGINA, A.T. et al., Changing Paradigms in Cutaneous Immunology: Adapting with Dendritic Cells. <i>The Journal of Investigative Dermatology</i> 124 (2005), 1-12.	
C	CL2	KARIKO, K. et al., Suppression of RNA Recognition by Toll-like Receptors: The Impact of Nucleoside Modification and the Evolutionary Origin of RNA. <i>Immunity</i> 23 (2005), 165-175.	
	CM2	KANDIMALLA, E.R. et al., Divergent synthetic nucleotide motif recognition pattern: design and development of potent immunomodulatory oligodeoxyribonucleotide agents with distinct cytokine induction profiles. <i>Nucleic Acids Research</i> 31(9) (2003), 2393-2400.	
	CN2	KANDIMALLA, E.R. et al., Immunomodulatory oligonucleotides containing a cytosine-phosphate-2'-deoxy-7-deazaguanosine motif as potent Toll-like receptor 9 agonists. <i>PNAS</i> 102(19) (2005), 6925-6930.	
	CO2	LEE, J. et al., Molecular basis for the immunostimulatory activity of guanine nucleoside analogs: Activation of Toll-like receptor 7. <i>PNAS</i> 100(11) (2003), 6646-6651.	
	CP2	AURUP, H. et al., Translation of 2'-modified mRNA in vitro and in vivo. Nucleic Acids Research 22(23) (1994), 4963-4968.	
	CQ2	DISBROW, G.L., Codon optimization of the HPV-16 E5 gene enhances protein expression. <i>Virology</i> 311 (2003), 105-114.	
	CR2	SOUSA, R., Use of T7 RNA Polymerase and Its Mutants for Incorporation of Nucleoside Analogs into RNA. <i>Methods in Enzymology</i> 317 (2000), 65-74.	

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CS2	GAO, X. et al., "Nonviral gene delivery: what we know and what is next." AAPS J 9(1): E92-E104 (2007).	
CT2	HERWEIJER, H. et al., "Gene therapy progress and prospects: Hydrodynamic gene delivery." <i>Gene Ther.</i> 14 (2): 99-107 (2007).	
CU2	SUDA, T. et al., "Hydrodynamic gene delivery: its principles and applications." <i>Mol. Ther.</i> 15 (12): 2063-2069 (2007).	
CV2	VERMA, I.M. et al., "Gene therapy: twenty-first century medicine." <i>Annu. Rev. Biochem.</i> 74 : 711-738 (2005).	
CW2	WOLFF, J.A. et al., "Direct gene transfer into mouse muscle in vivo." Science 247(4949 Pt. 1): 1465-1468 (1990).	
	No. ¹ CS2 CT2	the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. GAO, X. et al., "Nonviral gene delivery: what we know and what is next." AAPS J 9(1): E92-E104 (2007). HERWEIJER, H. et al., "Gene therapy progress and prospects: Hydrodynamic gene delivery." Gene Ther. 14(2): 99-107 (2007). CU2 SUDA, T. et al., "Hydrodynamic gene delivery: its principles and applications." Mol. Ther. 15(12): 2063-2069 (2007). CV2 VERMA, I.M. et al., "Gene therapy: twenty-first century medicine." Annu. Rev. Biochem. 74: 711-738 (2005). CW2 WOLFF, J.A. et al., "Direct gene transfer into mouse muscle in vivo." Science 247(4949 Pt. 1):

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